INSTRUCTION MANUAL

D-2500/D-7500 DATA FILE CONVERSION UTILITY FOR D-7000 HPLC SYSTEM MANAGER

Read the instruction manual carefully and store it at an appropriate place.

- Read the instruction manuals of 'personal computer' and 'D-7000 HPLC system manager' carefully before using this software.
- Keep this manual at a place suitable for prompt reference.

HITACHI

INSTRUCTION MANUAL

FOR

D-2500/D-7500 DATA FILE CONVERSION UTILITY FOR D-7000 HPLC SYSTEM MANAGER

Hitachi High-Technologies Corporation

D-2500/D-7500 DATA FILE CONVERSION UTILITY FOR D-7000 HPLC SYSTEM MANAGER

PREFACE

Thank you very much for your purchase of Hitachi D-2500/D-7500 Data File Conversion Utility.

The D-2500/D-7500 data file conversion utility is software for converting the chromatogram data file (called "chromato-data file" hereafter) acquired by Hitachi Model D-2500 or D-7500 chromato-integrator, the data processing unit of a liquid chromatograph system, into a format that allows recalculation by Hitachi D-7000 HPLC system manager.

This software is a product manufactured for use by persons who have a basic knowledge of personal computer and chemical analysis. If an analytical instrument, chemical or sample is handled in a wrong way, not only will a correct analytical result be unobtainable but a problem on safety may be caused.

Prior to use, be sure to read this instruction manual carefully until its contents are understood adequately, and utilize the product correctly.

HOW TO USE THIS INSTRUCTION MANUAL

This manual has been prepared for the users of D-2500/D-7500 data file conversion utility, and describes the methods of installing and operating the software by the users.

First of all, be sure to read the precautions and 'SAFETY SUMMARY' at the head of the manual.

Besides this manual, beginners should also read the instruction manuals of 'personal computer' and 'D-7000 HPLC system manager' to obtain an adequate understanding.

PRECAUTIONS

Product Guarantee

Only when the D-2500/D-7500 file conversion utility is used according to the instruction manual does Hitachi guarantee the following contents based on the specifications described in the manual.

(1) Scope of guarantee

- (a) If the product becomes faulty because of a defect in our workmanship, the product alone will be repaired free of charge.
- (b) In repair, a substitute part may be used or replacement with an equivalent product may be made instead of repair.
- (c) Among the system components, those like personal computer and printer are frequently modified. Such components may not be supplied in the original model.

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The following will be excluded from the guarantee even within the guarantee term.

- (a) A failure due to use at a place which does not meet the installation site standards set up by Hitachi High-Technologies Corporation.
- (b) A failure due to use of power supply (voltage, frequency) other than specified by Hitachi High-Technologies Corporation or abnormal power supply.
- (c) Corrosion or deterioration of piping due to impurities mixed in gas, compressed air or cooling water supplied by the customer.
- (d) Corrosion of the electric circuit or deterioration of an optical element due to highly corrosive gas contained in the atmospheric air.
- (e) A failure due to use of hardware, software or spare part other than specified by Hitachi High-Technologies Corporation.
- (f) A failure due to customer's improper handling or maintenance.

- (g) Any anomaly due to maintenance or repair by a maintenance service company other than authorized by Hitachi High-Technologies Corporation.
- (h) System disposed of or resold without reporting to Hitachi High-Technologies Corporation.
- (i) A failure due to relocation or transport after installation.
- (j) Disassembly, modification or reinstallation without Hitachi High-Technologies Corporation approval.
- (k) Consumables and failures of any part after expiration of its guarantee term.
- (I) A failure of a non-guaranteed part described in the instruction manual, etc.
- (m) A failure due to fire, earthquake, storm or flood damage, lightning, disturbance, riot, theft, terrorism, war, radioactive contamination, contamination due to toxic substance or other force majeure.
- (n) A failure due to a computer virus.

(3) Restriction on guarantee

- (a) Hitachi High-Technologies Corporation makes no warranties, either express or implied, except as provided herein, including without limitation thereof, warranties as to marketability, merchantability, for a particular purpose or use, or against infringement of any patent. You must assume all risk for the installation, use, and results obtained from the product. Hitachi High-Technologies Corporation shall not be liable for any direct, incidental or consequential damages resulting from any defective product or the use of any product.
- (b) No guarantee will be made if product performance does not match the information given verbally or in a written format by a retailing shop or our employee without implementing the approval procedure determined by Hitachi High-Technologies Corporation.
- (c) Destruction of data and application software due to breakage of this software will not be compensated.
- (d) No liability is assumed for damage to data or application software due to computer virus infection.

Installation

For the installation, the customer should make preparations for satisfying the installation conditions of this product with reference to this instruction manual.

Other Precautions

(1) Software

- (a) The copyright of the D-2500/D-7500 data file conversion utility is owned by Hitachi High-Technologies Corporation.
- (b) No part of the D-2500/D-7500 data file conversion utility or its manual may be used or reproduced without Hitachi High-Technologies Corporation approval.
- (c) Software is available in a set, as a rule, for each computer.
- (d) The D-2500/D-7500 data file conversion utility and its manual can be used only under the contract on permission for using this product.
- (e) Hitachi will take no responsibility for any effect resulting from use of the D-2500/D-7500 data file conversion utility and its manual.
- (f) The specifications of D-2500/D-7500 data file conversion utility and the descriptions in the manual are subject to change without prior notice.

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(2) Instruction manual

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- (b) The copyright of this instruction manual is held by Hitachi High-Technologies Corporation.
- (c) No part of this publication may be reproduced or transmitted, in any form or by any means, without the prior permission of Hitachi High-Technologies Corporation.

A SAFETY SUMMARY

▲ General Safety Guidelines

Before operating the D-2500/D-7500 data file conversion utility, read the following instructions carefully:

- Follow all the operating procedures provided in this manual.
- Pay special attention to and follow all the hazard warnings in the manual. Failure to do so can cause injury to yourself or damage to the software.
- The hazard warnings which appear on the warning labels in the manual have one of the following alert headings consisting of an alert symbol and a signal word. DANGER, WARNING, or CAUTION.

A DANGER: indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. (The operation of this product does not involve DANGER.) A WARNING: indicates a potentially hazardous situation which, if not avoided, can result in death or serious injury. (The operation of this product does not involve WARNING.) A CAUTION: indicates a hazardous situation which, if not avoided, will or can result in minor or moderate injury, or serious damage of product. (The operation of this product does not involve CAUTION.) : The alert symbol shown left precedes

 The signal word 'NOTICE' is used to present warnings which are not directly related to personal injury hazards.

in the manual.

every signal word for hazard warnings, and appears in safety related descriptions

A SAFETY SUMMARY (Continued)

A General Safety Guidelines (Continued)

- Do not perform any operation or action in any way other than as provided in this manual. When in doubt, call the designated field engineer.
- Keep in mind that the hazard warnings in this manual cannot cover every possible case, as it is impossible to predict and evaluate all circumstances beforehand. Be alert and use your common sense.
- When using a chemical, the operation room should be ventilated adequately at the customer's responsibility. Inadequate ventilation may cause a health problem.
- Avoid modification of the instrument, replacement of a part, use of an unspecified part, operation with the safety device removed, etc. Otherwise, safety cannot be ensured.
- Installation at instrument delivery, maintenance and relocation should be carried out under the control of a technician authorized by Hitachi High-Technologies Corporation.
- Any operation or intervention other than described in the instruction manual should not be attempted. If a problem arises on the system, contact your dealer or Hitachi High-Technologies Corporation service representative.
- The precautions indicated on the instrument and in the instruction manual are based on thorough examinations. However, there is still a risk of an unexpected situation occurring. In operation, the user should always keep an eye on the instrument besides observing the instructions.



SAFETY SUMMARY (Continued)

NOTICE

Caution on Accuracy or Precision of Measured Value

 Measure a control sample and make sure the instrument operates normally.

Data Backup

 Data may become unusable due to a system failure, wrong operation, computer virus infection, etc. As a countermeasure, save data of the hard disk into a floppy disk periodically. Such a periodical saving is called backup.

Protection against Computer Viruses

If any program/data is damaged suddenly or an unexpected operation/screen is encountered, the personal computer may be infected by a computer virus. Computer viruses are malicious programs that sneak into the personal computer to cause misbehavior or damage to data. And, a program designed to offer protection against computer viruses is called a vaccine program.

Possible causes of virus infection are:

- Downloading a virus-laden program through communication.
- Using a floppy disk or other storage medium infected by a virus.

Note also that once the personal computer is infected by a virus, it may spread to other computers via communication or storage medium. Never use a program or storage medium that is suspected of containing a virus.

If there is a possibility of virus infection, check for a virus using a vaccine program. Note, however, that some kinds of vaccine programs cannot eradicate particular viruses. In such a case, be sure to make a backup of the hard disk.

The user is requested to prepare a vaccine program and carry out virus removal.

D-2500/D-7500 DATA FILE CONVERSION UTILITY FOR D-7000 HPLC SYSTEM MANAGER

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1. OVERVIEW

The D-2500/D-7500 data file conversion utility is software for converting the data measured with Model D-2500 or D-7500 into a file readable by D-7000 HSM.

This software converts a data file of Model D-2500/D-7500 into the data file format of D-6000 HSM. The data file after conversion is read from floppy disk and transferred into D-7000 HSM by using data processing control (\underline{Import}).

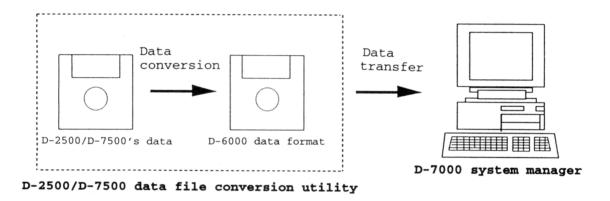


Fig. 1-1 Method of Converting Model D-2500/7500 Data

NOTICE 1 : Bear in mind that convertible floppy disk differs between Models D-2500 and D-7500. The Model D-2500 can use 2 kinds of 3.5-inch floppy disks (2DD and

2HD types).
However, this soft

However, this software is capable of converting only the data file written in a 2DD type floppy disk. For converting the data file written in a 2HD type floppy disk, the file need be rewritten first in a 2DD type floppy disk. On the other hand, in combination with the Model D-7500, this software allows conversion of the data file written in a 2HD type floppy disk.

NOTICE 2: In the related instruction manuals including this one, the Model D-2500 chromato-integrator may usually be abbreviated as Model D-2500; Model D-7500 chromato-integrator as Model D-7500, Model D-7000 HPLC system manager as D-7000 HSM, Model D-6000 HPLC system manager as D-6000 HSM, Microsoft Disk Operating System as MS-DOS and Windows NT 3.5 as Windows NT.

2. BACKUP OF FLOPPY DISK

If the original floppy disk is broken, operation will become impossible. Therefore, a copied disk should be used for routine operation. Copying procedure is instructed below.

2-1 Backup of Software on MS-DOS

- (1) Turn on power supply of the computer, and then start MS-DOS.
- (2) Insert the original floppy disk into drive A, make entry as underlined below, and then press the ENTER key.

C>diskcopy a: a: ↓

- \mathbb{J} : Press the ENTER key.
- (3) Eject the original floppy disk, insert a formatted floppy disk for backup into drive A and press the ENTER key.
- (4) After copying, input "dir a:" and make sure the following files are copied.
 - INTEG (DIR)
 - DDRV.DEF
 - CDRV.DEF
 - AUTOEXEC.BAT
 - DOSMOV.BAT
 - CONFIG.NEW
 - RAMMOV.BAT
- (5) In the above procedure, the software can be backed up. After backup, the original floppy disk should be stored at a place free from high temperature, high humidity and strong magnetic field. For subsequent operations, use the copied floppy disk (master FD).

NOTICE: In order to prevent the files in the generated master FD from being erased in error, write-protect the disk by moving its write-protect tab.

2-2 Backup of Software on Windows NT

- (1) Turn on power supply of the computer, and then start Windows NT.
- (2) Double-click on the <u>Main</u> icon. Then, open <u>File Manager</u> in <u>Main</u> by double clicking.

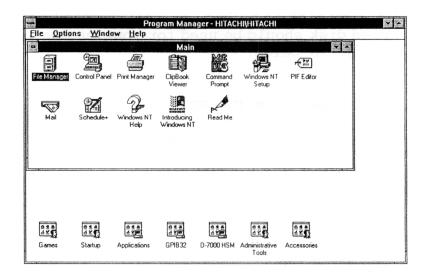


Fig. 2-1 Start of File Manager

(3) Click on $\underline{\text{Disk}}$ in the pull-down menu, and then click on $\underline{\text{Copy}}$ $\underline{\text{Disk}}$...

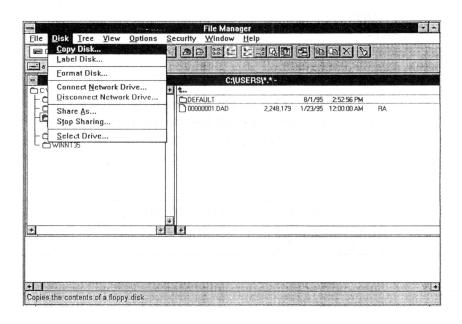


Fig. 2-2 Copying of Floppy Disk

(4) The screen below will appear. Here, click on Yes.

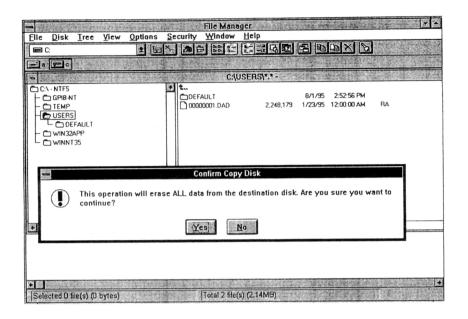


Fig. 2-3 Start of Floppy Disk Copying

(5) Set the original floppy disk as a source in the floppy disk drive and click on OK.

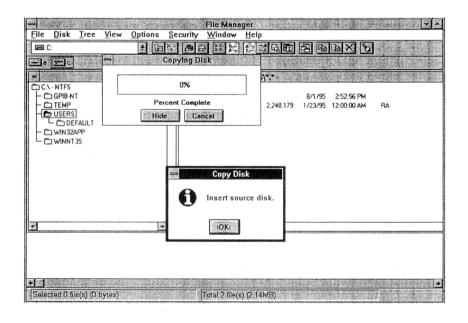


Fig. 2-4 Floppy Disk Copying Step 1

NOTICE: For preventing the software being erased carelessly, confirm that the original floppy disk is write-protected.

(6) Set the target floppy disk in the floppy disk drive and click on <u>OK</u>.

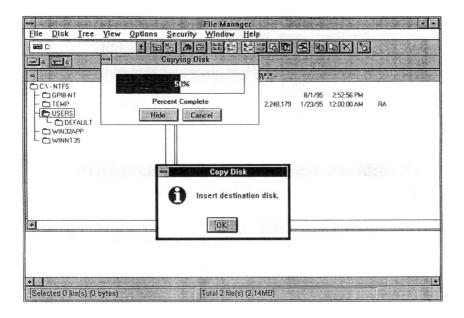


Fig. 2-5 Floppy Disk Copying Step 2

(7) In the above procedure, the software can be backed up.
After backup, the original floppy disk should be stored at a place
free from high temperature, high humidity and strong magnetic field.
For subsequent operations, use the copied floppy disk (master FD).

NOTICE: In order to prevent the files in the generated master FD from being erased in error, write-protect the disk by moving its write-protect tab.

3. INSTALLATION OF D-2500/D-7500 DATA FILE CONVERSION UTILITY

This software runs basically on MS-DOS. Install the software depending on the personal computer (PC) to be used.

3-1 For PC with MS-DOS Installed

3-1-1 Operating Environment

PC : IBM-AT compatible machine

MS-DOS: Version 6.22

3-1-2 Method of Installation

Install the software in the hard disk of PC as instructed below.

- (1) Start PC in MS-DOS.
- (2) Set the master FD in the 3.5-inch floppy disk drive.
- (3) Change the drive and start the batch file (DOSMOV.BAT) for moving the file conversion utility in master FD, thereby shifting the file conversion utility to the drive in which MS-DOS is installed. Set the master FD in the floppy disk drive, key in as underlined, and then press the ENTER key.

 $C: \ A: \ DOSMOV A: C:$

A: Specifies the drive in which the master FD is set. C: Specifies the drive in which MS-DOS is installed.

(4) On execution of (3), the following message appears on the screen.

INPUT Master FD (DRIVE a:)
Press any key to continue...

(5) Set the master FD in the floppy disk drive and press any key (e.g., space bar). The D-2500/D-7500 file conversion utility will be installed in the drive (usually the hard disk) in which MS-DOS is installed.

The display below will then be presented on the screen and installation will be terminated.

A:\INTEG\INTEGCNV.EXE

A:\INTEG\INTEGINI.UTL

A:\INTEG\INTEG.BAT

3 file(s) copied

A:\INTEG\D25\D25INIT.UTL

A:\INTEG\D25\D25EXE

2 file(s) copied

A:\INTEG\D75\D75INIT.UTL

A:\INTEG\D75\D75.EXE

2 file(s) copied

A:\>

3-2 For PC with No MS-DOS Installed (with only Windows NT)

Generate a STARTUP disk by using the install disk for MS-DOS. Then copy the D-2500/D-7500 file conversion utility software from the master FD into the STARTUP disk to generate a system FD. Set the generated system FD in the floppy disk drive of PC and turn on power supply. The D-2500/D-7500 data file conversion utility will automatically start. In this case, data conversion processing is carried out on the RAM DRIVE of PC.

NOTICE: STARTUP disk is an FD containing the files necessary for starting MS-DOS.

3-2-1 Method of Generating System FD

System FD can be generated by using the MS-DOS install disk provided with PC and the master FD. Operating procedure is given below.

(1) Generation of STARTUP disk Start PC with SETUP (DISK1) of the MS-DOS system file (DISK1 to DISK3) to generate a STARTUP disk for file conversion.

NOTICE: Once PC has started with SETUP, terminate SETUP processing by pressing the F3 key (EXIT) twice. Don't neglect this procedure, otherwise MS-DOS will be installed in the hard disk.

(2) Format an FD with system transfer by utilizing the virtual drive of floppy disk drive. Key in as underlined and press the ENTER key.

A:\>FORMAT B: /s

B: Indicates virtual drive here.

♣: Requires pressing of the ENTER key.

As a result, an MS-DOS STARTUP disk is generated.

- (3) Copy the necessary files specified below from the MS-DOS system file (DISK1 and DISK2) into the STARTUP disk generated in (2).
 - (a) Copy 2 files, EXPAND.EXE and EMM386.EX_ from DISK1 to the STARTUP disk.

Set DISK1 in the floppy disk drive and key in as underlined. Then press the ENTER key.

A:\>COPY EXPAND.EXE B: \bigcirc A:\>COPY EMM386.EX_ B: \bigcirc

B: Indicates virtual drive here.

Requires pressing of the ENTER key.

(b) Copy 2 files, HIMEM.SY_ and RAMDRIVE.SY_ from DISK2 to the STARTUP disk. Set DISK2 in the floppy disk drive and key in as underlined.

Then press the ENTER key.

B: Indicates virtual drive here.

Requires pressing of the ENTER key.

(4) After copying, set the STARTUP disk in the floppy disk drive, and restore EMM386.EX_, HIMEM.SY_ and RAMDRIVE.SY_ by EXPAND.EXE.

 \mathbb{Q} : Requires pressing of the ENTER key.

(5) Copy 2 files, CONFIG.SYS and RAMMOV.BAT from the master FD into the STARTUP disk. Set the master disk in the floppy disk drive and key in as underlined. Then press the ENTER key.

A:\>COPY CONFIG.SYS B: A:\>COPY RAMMOV.BAT B:

B: Indicates virtual drive here.

Requires pressing of the ENTER key.

- (6) Turn off the power supply of PC and start MS-DOS with the STARTUP disk. As a result, RAM DISK is configured. RAM DISK is usually configured in "C:" or "D:" drive.
- (7) Move the file conversion utility from the master FD by RAMMOV.BAT in the STARTUP disk.

 Set the STARTUP disk in the floppy disk drive and key in as underlined. Then press the ENTER key.

$A: \ > RAMMOV \quad A: \quad C: \quad \emptyset$

- A: Indicates the drive in which the STARTUP disk and master FD are set.
- C: Indicates the drive in which RAM drive is configured. This drive may be D: depending on the PC to be used.
- □: Requires pressing of the ENTER key.

NOTICE: The name of the drive in which RAM DRIVE is configured need be specified. It is usually "C:" or "D:".

In response to this batch processing, change the floppy disk from master to STARTUP.



(8) As a result, the file conversion utility is installed in the STARTUP disk. A system disk has now been generated. When starting PC with the system FD generated in the above procedure, RAM DRIVE area will automatically be secured to allow automatic start of the file conversion utility.

NOTICE: In order to prevent the generated files from being erased in error, write-protect the FD by moving its write-protect tab.

4. OPERATION OF D-2500/D-7500 DATA FILE CONVERSION UTILITY

The kind of floppy disk containing the data file generated with the Model D-2500 is different from that with the Model D-7500. In this software, either Model D-2500 file conversion utility (F1 key) or Model D-7500 file conversion utility (F2 key) should be selected on the startup main screen for D-2500/D-7500 depending on the kind of data file (Model D-2500 or D-7500) to be converted. For converting both kinds of data files, the Model D-2500 or D-7500 data file conversion utility software need be started after terminating the current software. Operating procedure is explained below for each case of start from the hard disk and start from the system FD.

4-1 How to Start D-2500/D-7500 Data File Conversion Utility

4-1-1 Start from Hard Disk of PC

- (1) Start MS-DOS.
- (2) On the DOS screen, key in "CD INTEG" and "INTEG" pressing the ENTER key at the end of each.
 - C:\><u>CD INTEG</u> ↓
 C:\>INTEG>INTEG ↓
 - \mathfrak{D} : Requires pressing of the ENTER key.

As a result, the D-2500/D-7500 data file conversion utility starts.

4-1-2 Start from System FD

- (1) Set the system FD in the floppy disk drive of PC.
- (2) Turn on the power supply of PC.
- (3) The D-2500/D-7500 data file conversion utility will automatically start.

4-2 Hierarchy of Menu

The menu hierarchy of this software is shown in Fig. 4-1.

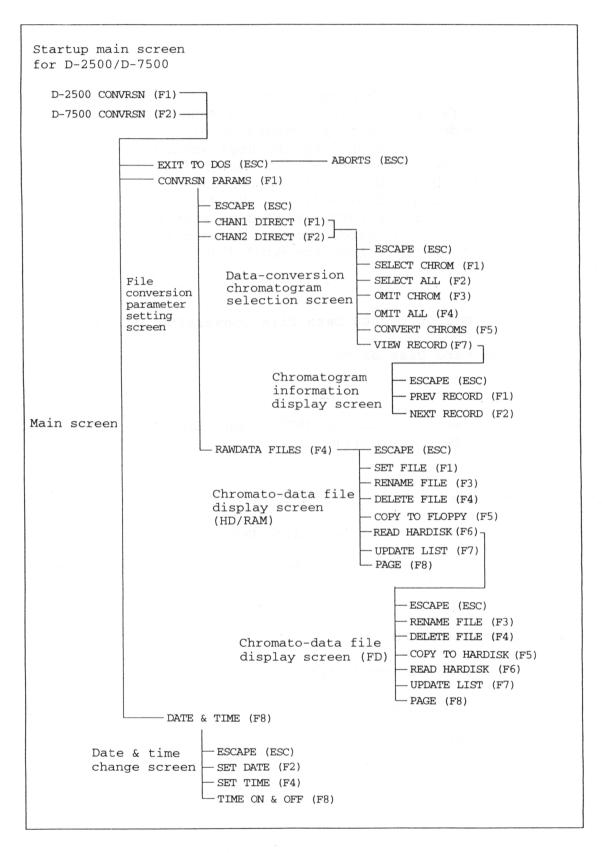
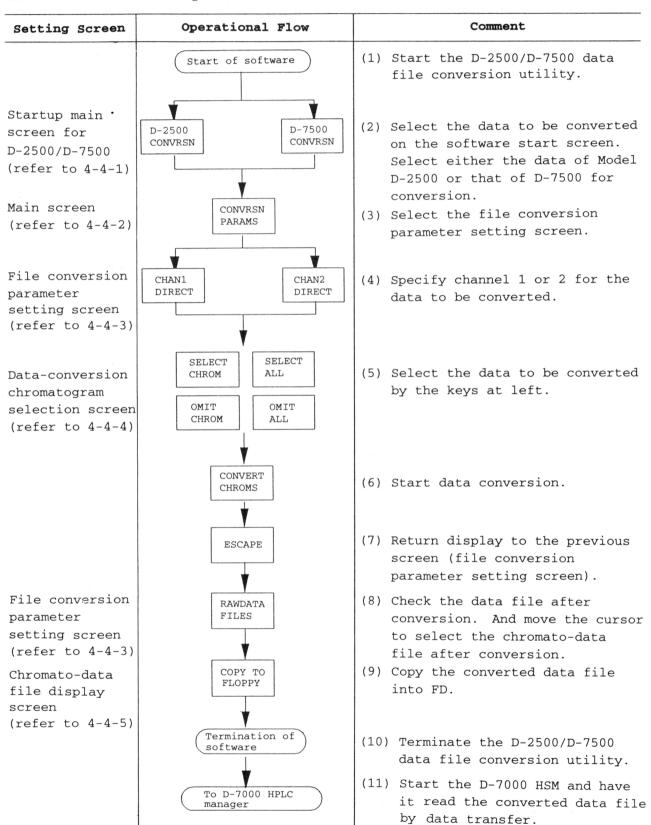


Fig. 4-1 Hierarchy of Menu

4-3 Operation Method

In the basic operation method, operational flow is shown below. Data should be converted in the procedure given below. For details, refer to "4-4 Detailed Explanation."



4-4 Detailed Explanation

4-4-1 Startup Main Screen for D-2500/D-7500

On start of the software, its menu appears together with the startup main screen for D-2500/D-7500 shown in Fig. 4-2. In this software, start the D-2500 or D-7500 data file conversion utility by pressing function key F1 or F2, respectively. For conversion of both data files generated with the Models D-2500 and D-7500, the software need be started twice.

While this software runs, the functions of the function keys (ESC and F1 to F8) on the keyboard are displayed in the lowermost field of each screen. The ESC key is generally used for returning to the previous screen and soft key menu. The cursor is movable by arrow keys $(\rightarrow, \leftarrow, \uparrow, \downarrow)$.

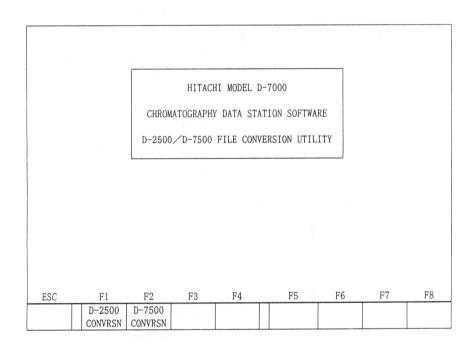


Fig. 4-2 Startup Main Screen for D-2500/D-7500

D-2500 CONVRSN

Specify for converting the data file acquired with the Model D-2500. This starts the software for converting the data file acquired with the Model D-2500. (Refer to 4-4-2 (1).)

D-7500 CONVRSN

Specify for converting the data file acquired with the Model D-7500. This starts the software for converting the data file acquired with the Model D-7500. (Refer to 4-4-2 (2).)

4-4-2 Main Screen

When pressing either key on the startup main screen for D-2500/D-7500, the main screen appears. On this screen, you can terminate the software, call the file conversion parameter setting screen (start data conversion), and change/set date and time display on the screen. D-2500 main screen and D-7500 main screen are detailed in (1) and (2) below.

(1) D-2500 main screen

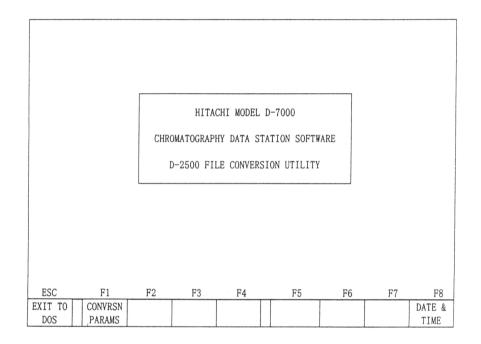


Fig. 4-3 D-2500 Main Screen

EXIT TO DOS

This option is selected by pressing the ESC key. In response to the message prompt on the dialog line, press the space bar to terminate the program and return to DOS. While the prompt is displayed, the ABORT option is available for return to the Main Menu screen.

CONVRSN PARAMS

This option, which is used to set the parameters for the file conversion process, is selected by pressing function key F1. Refer to Section 4-4-3 for description of this function.

DATE & TIME

: This option is selected by pressing function key F8. Refer to Section 4-4-8 for a description of the Date & Time.

(2) D-7500 main screen

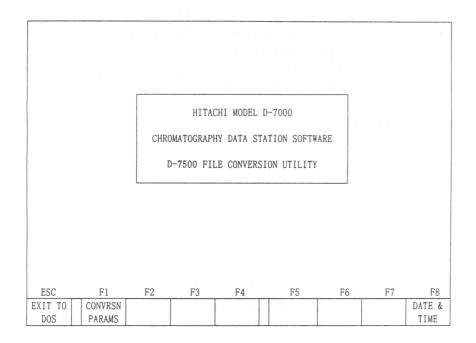


Fig. 4-4 D-7500 Main Screen

EXIT TO DOS

: This option is selected by pressing the ESC key. In response to the message prompt on the dialog line, press the space bar to terminate the program and return to DOS. While the prompt is displayed, the ABORT option is available for return to the Main Menu screen.

CONVRSN PARAMS

: This option, which is used to set the parameters for the file conversion process, is selected by pressing function key F1. Refer to Section 4-4-3 for description of this function.

DATE & TIME

This option is selected by pressing function key F8. Refer to Section 4-4-8 for a description of the Date & Time.

4-4-3 File Conversion Parameter Setting Screen

When pressing the CONVRSN PARAM key in the soft key menu of main screen, the next file conversion parameter setting screen is called. After setting necessary parameters, insert a 3.5-inch FD, in which chromatogram is written, into the floppy disk drive and execute data conversion. D-2500 file conversion parameter setting screen and D-7500 file conversion parameter setting screen are detailed in (1) and (2) below.

(1) D-2500 file conversion parameter setting screen

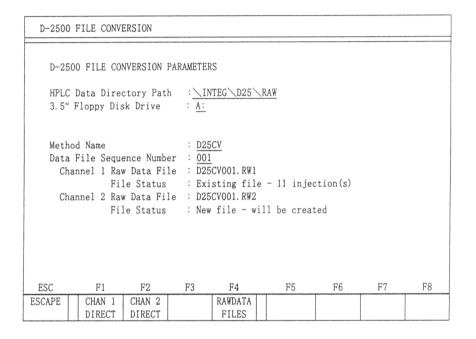


Fig. 4-5 D-2500 File Conversion Parameter Setting Screen

- (a) HPLC Data Directory Path : Enter the path name of the directory on the current drive where the HPLC data files are stored. The default path name is "\INTEG\D25\RAW".

(c) Method Name

: Specify a method name. You may enter any valid DOS file name up to five characters long. The default method name is "D25CV".

(d) Data File Sequence Number: Enter any value between 001 and 999. This number is automatically increased by 1 as each output file is created. It recycles to 001 through 999.

(e) Channel 1, 2 Raw Data File:

The Channel 1 and 2 file names are composed automatically by combining the Method Name, the Data File Sequence Number, and the extension "RW1" or "RW2". This parameter is not If the output file exists, editable. the converted D-2500 chromatograms will be appended to the file up to the limit of 216 chromatograms. If an output file does not exist, it will be created by the conversion process.

(f) File Status

: The file status automatically displayed for each output file name tells whether the file already exists or will be created. If the file already exists, the number of chromatograms currently stored in it will be displayed. No more than 216 chromatograms can be stored in an HPLC data file.

Explained below are the functions of the function keys effective on the D-2500 file conversion parameter setting screen.

ESCAPE

This option, which is selected by pressing Esc key, returns you to the D-2500 Main Screen.

CHAN 1 DIRECT

Before these functions can be selected, a D-2500 raw data floppy disk must be inserted into the disk drive specified by the 3.5 inch Floppy Disk Drive parameter. When either function key F1 is pressed, the system reads directory information from a D-2500 raw data disk and displays a list of chromatograms that can be converted. This list is referred to as the D-2500 Disk Directory. Only the chromatograms on channel 1 will be displayed. (Refer to Section 4-4-4.) If an incorrect disk (or no disk) is inserted in the drive, an error message will be displayed.

CHAN 2 DIRECT

: Before these functions can be selected, a D-7500 raw data floppy disk must be inserted into the disk drive specified by the 3.5 inch Floppy Disk Drive parameter. When either function key F2 is pressed, the system reads directory information from a D-7500 raw data disk and displays a list of chromatograms that can be converted. This list is referred to as the D-7500 Disk Directory. Only the chromatograms on channel 2 will be displayed. (Refer to Section 4-4-4.) If an incorrect disk (or no disk) is inserted in the drive, an error message will be displayed.

RAWDATA FILES

This option, which is selected by pressing function key F1, displays a directory of HPLC data files for file maintenance and reference. (Refer to Section 4-4-5.)

(2) D-7500 file conversion parameter setting screen

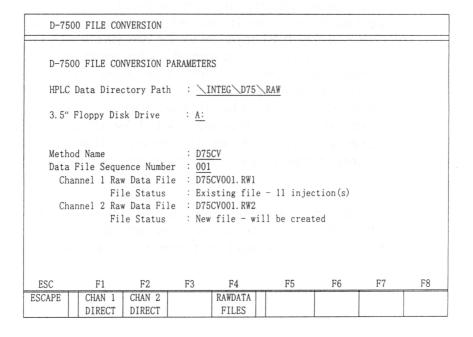


Fig. 4-6 D-7500 File Conversion Parameter Setting Screen

(a) HPLC Data Directory Path

Enter the path name of the directory on the current drive where the HPLC data files are stored. The default path name is "\INTEG\D75\RAW".

(b) 3.5" Floppy Disk Drive

: Specify the floppy disk drive that will be used to read the D-2500 raw data floppy disk. The display lists the floppy disk drives installed on your system. For most systems this will be "A:" and "B:". If your system has floppy disk drives installed as "Drive 2" or "Drive 3", however, the display will list them as "X:" or "Y:".

(c) Method Name

: Specify a method name. You may enter any valid DOS file name up to five characters long. The default method name is "D75CV".

(d) Data File Sequence Number :

Enter any value between 001 and 999. This number is automatically increased by 1 as each output file is created. It recycles to 001 through 999.

(e) Channel 1, 2 Raw Data File: The Channel 1 and 2 file names are composed automatically by combining the Method Name, the Data File Sequence Number, and the extension "RW1" or "RW2". This parameter is not editable. If the output file exists, the converted D-7500 chromatograms will be appended to the file up to the limit of 216 chromatograms. If an output file does not exist, it will be created by the conversion process.

(f) File Status

: The file status automatically displayed for each output file name tells whether the file already exists or will be created. If the already exists, the number of chromatograms currently stored in it will be displayed. No more than 216 chromatograms can be stored in an HPLC data file.

Explained below are the functions of the function keys effective on the D-7500 file conversion parameter setting screen.

ESCAPE

: This option, which is selected by pressing Esc key, returns you to the D-7500 Main Screen.

CHAN 1 DIRECT

: Before these functions can be selected, a D-7500 raw data floppy disk must be inserted into the disk drive specified by the 3.5 inch Floppy Disk Drive parameter. When either function key F1 is pressed, the system reads directory information from a D-7500 raw data disk and displays a list of chromatograms that can be converted. This list is referred to as the D-7500 Disk Directory. Only the chromatograms on channel 1 will be displayed. (Refer to Section 4-4-4.) If an incorrect disk (or no disk) is inserted in the drive, an error message will be displayed.

CHAN 2 DIRECT

Before these functions can be selected, a D-7500 raw data floppy disk must be inserted into the disk drive specified by the 3.5 inch Floppy Disk Drive parameter. When either function key F2 is pressed, the system reads directory information from a D-7500 raw data disk and displays a list of chromatograms that can be converted. This list is referred to as the D-7500 Disk Directory. Only the chromatograms on channel 2 will be displayed. (Refer to Section 4-4-4.) If an incorrect disk (or no disk) is inserted in the drive, an error message will be displayed.

RAWDATA FILES

: This option, which is selected by pressing function key F1, displays a directory of HPLC data files for file maintenance and reference. (Refer to Section 4-4-5.)

4-4-4 Data-Conversion Chromatogram Selection Screen

On the data-conversion chromatogram selection screen, chromatogram is selectable and convertible. When pressing the CHAN 1 DIRECT or CHAN 2 DIRECT key on the data conversion parameter setting screen, a list of the chromatograms acquired in channel 1 or 2 is loaded on the screen from the FD set in the specified floppy disk drive. If the display has two or more screen pages, the other screens can be called by the Page Up or Page Down key on the keyboard. D-2500 data-conversion chromatogram selection screen and D-7500 data-conversion chromatogram selection screen are detailed in (1) and (2) below.

(1) D-2500 data-conversion chromatogram selection screen

D 2000	DISK DIRE	CTORY : C	HANNEL 1	RAW DATA FILE	: D25CV00)1. RW1		
NO	DATA	TIME	METHOD NAME	TAG	VIAL	VOL	INJ	TYPE
1	08/01/95	09:10	ABCDEFGHIJKI	. 123	0	0	1	STD
2	08/01/95	09:40	ABCDEFGHI JKI	. 124	0	0	1	UNK
3	08/01/95	10:10	ABCDEFGHI JKI	125	0	0	1	UNF
ESC	F1	F2	F3 F	4 F5	F6	F	7	F8
ESCAPE	SELECT	SELECT	OMIT OM	IT CONVER	T	VI	EW	
	CHROM	ALL	CHROM AL	L CHROMS		REC	ORD	

Fig. 4-7 D-2500 Data-Conversion Chromatogram Selection Screen

Data conversion is possible after selecting the chromatogram data to be converted. In addition, items other than data No. (NO), data acquisition time (DATE, TIME) and tag No. (TAG) allow correction on this list table screen. In particular, sample vial No. (VIAL), sample volume (VOL) and injection number (INJ) need be corrected here. Corrections of analysis name (METHOD NAME) and sample type (STD1, UNK: Displayed as CALIB and UNKNOWN, respectively, on Model D-2500) will not be reflected on the contents of D-2500 floppy disk.

Listed below are the functions of the function keys on the D-2500 data-conversion chromatogram selection screen.

ESCAPE

This option, which is selected by pressing Esc key, returns you to the D-2500 file conversion parameter setting screen.

SELECT CHROM

This option, which is selected by pressing function key F1, will highlight (in blue) the chromatogram selected by the cursor (small red rectangle). The highlighting indicates which chromatograms listed in the table will be converted when the conversion process is started.

SELECT

ALL

This option, which is selected by pressing function key F2, will highlight all of the chromatograms with matching sampling period programs.

OMIT CHROM

This option, which is selected by pressing functio key F3, removes highlighting from a chromatogram selected by the cursor thereby deselecting the chromatogram from conversion.

OMIT ALL

This option, which is selected by pressing function key F4, removes the highlighting from all chromatograms that were previously highlighted.

CONVERT CHROMS

This option, which is selected by pressing function key F5, starts the conversion process. The selected chromatograms are read from the floppy disk and stored in a compatible HPLC Manager Raw Data file. If the file does not exist, it will be created. The menu bar also changes to allow the user to stop the conversion process. As each chromatogram is converted, the blue highlighting is removed so that you may follow the progress. A sample name is created automatically for each chromatogram.

NOTICE 1: In the chromato-data files for HPLC manager, the data acquisition interval (sampling period) must be the same on all the chromatogram data stored in each chromato-data file. Therefore, when converting the chromatogram data of Model D-2500 into the one for HPLC manager, the sampling period of each chromatogram data is checked. If conversion of the chromatogram data acquired at different sampling periods is specified, a message will be displayed before conversion of that data and conversion will not be performed. The maximum number of chromatograms storable in one chromato-data file for HPLC manager is 216.

NOTICE 2: The METHOD NAME (heading 7 characters) + TAG No. (5 characters) set on this screen becomes the sample name in the data reprocessing table of D-7000 HSM.

VIEW RECORD

This option, which is selected by pressing function key F7, switches to a screen display that provides a more detailed record of the chromatogram currently highlighted by the cursor. A detailed description is given in 4-4-7.

(2) D-7500 data-conversion chromatogram selection screen

	D-7500	FILE CONV	ERSION							
	D-7500	DISK DIRE	CTORY : (CHANNEL 1	RAW	DATA FILE :	D75CV00)1. RW1		
	STEP	DATA	TIME	METHOD	NAME	SEQ	VIAL	VOL	INJ	TYPE
	1	07/20/95	09:30	ABCDEFG	HIJKL	123	0	0	1	STD1
	2	07/20/95	10:00	ABCDEFG	HIJKL	124	0	0	1	UNK
	3	07/20/95	10:30	ABCDEFG	HIJKL	125	0	0	1	UNK
	ESC	F1	F2	F3	F4	F5	F6		F7	F8
Ī	ESCAPE	SELECT	SELECT ALL	OMIT CHROM	OMIT ALL	CONVERT CHROMS			IEW CORD	

Fig. 4-8 D-7500 Data-Conversion Chromatogram Selection Screen

Data conversion is possible after selecting the chromatogram data to be converted. In addition, items other than data No.(STEP), data acquisition time (DATE, TIME) and sequence No. (SEQ) allow correction on this list table screen. In particular, sample vial No. (VIAL), sample volume (VOL) and injection number (INJ) need be corrected here. Corrections of analysis name (METHOD NAME) and sample type (STD1, UNK: Displayed as CALIB and UNKNOWN, respectively, on Model D-7500) will not be reflected on the contents of D-7500 floppy disk.

Listed below are the functions of the function keys on the D-7500 data-conversion chromatogram selection screen.

ESCAPE

This option, which is selected by pressing Esc key, returns you to the D-7500 file conversion parameter setting screen.

SELECT CHROM

This option, which is selected by pressing function key F1, will highlight (in blue) the chromatogram selected by the cursor (small red rectangle). The highlighting indicates which chromatograms listed in the table will be converted when the conversion process is started.

SELECT ALL

This option, which is selected by pressing function key F2, will highlight all of the chromatograms with matching sampling period programs.

OMIT CHROM

: This option, which is selected by pressing function key F3, removes highlighting from a chromatogram selected by the cursor thereby deselecting the chromatogram from conversion.

OMIT ALL

: This option, which is selected by pressing function key F4, removes the highlighting from all chromatograms that were previously highlighted.

CONVERT CHROMS

This option, which is selected by pressing function key F5, starts the conversion process.

The selected chromatograms are read from the floppy disk and stored in a compatible HPLC Manager Raw Data file. If the file does not exist, it will be created. The menu bar also changes to allow the user to stop the conversion process. As each chromatogram is converted, the blue highlighting is removed so that you may follow the progress. A sample name is created automatically for each chromatogram.

NOTICE 1

In the chromato-data files for HPLC manager, the data acquisition interval (sampling period) must be the same on all the chromatogram data stored in each chromato-data file. Therefore, when converting the chromatogram data of Model D-7500 into the one for HPLC manager, the sampling period of each chromatogram data is checked. If conversion of the chromatogram data acquired at different sampling periods is specified, a message will be displayed before conversion of that data and conversion will not be performed. The maximum number of the chromatograms storable in one chromato-data file for HPLC manager is 216.

NOTICE 2

The METHOD NAME (heading 7 characters) + SEQ No. (5 characters) set on this screen becomes the sample name in the data reprocessing table of D-7000 HSM.

VIEW RECORD

This option, which is selected by pressing function key F7, switches to a screen display that provides a more detailed record of the chromatogram currently highlighted by the cursor. A detailed description is given in 4-4-7.

4-4-5 Chromato-Data File Display Screen

When pressing the RAWDATA FILES key on the file conversion parameter setting screen, the chromato-data file display screen appears. On this screen, the data files after data conversion, which are saved in the hard disk or RAM disk, are displayed to allow file copying (COPY TO FLOPPY key), deletion (DELETE FILES key), etc. Usually, the data file after conversion is to be copied into a formatted FD. Although the Models D-2500 and D-7500 share the same screen, the displayed data differs between them. After conversion, therefore, the data files should be stored by copying into an FD on this screen.

In the D-2500 file conversion utility, the data stored in directory "\INTEG\D25\RAW" is displayed. In the D-7500 file conversion utility, the data stored in directory "\INTEG\D75\RAW" is displayed.

			RAW	DATA FI	LES			
FILE	SIZ	E DA	TE TIM	Æ	FILE	SIZE	DATE	TIME
DEFLT001. RW1 PAN-G001. RW1 D25CV001. RW1	1104 568 1104	12 95/0	4/17 08	:41 DE	ST001. RW1 FLT002. RW1 5CV002. RW1	132472 110472 35684	95/04/17	10:31 08:31 10:05
1 1 1	F1 SET	F2	F3 RENAME FILE	F4 DELETE FILE	F5 COPY TO FLOPPY	F6 READ FLOPPY	F7 UPDATE	F8 PAGE

Fig. 4-9 Chromato-Data File Display Screen

ESCAPE

This option, which is selected by pressing Esc key, returns you to the file conversion parameter setting screen.

SET FILE

: This option, which is selected by pressing function key F1, will return the program to the file conversion parameters screen (refer to Section 4-4-3) and will automatically set Method name, Data file Sequence Number, Channel 1/2 Raw Data File, and File Status to match those of the raw data file that is currently highlighted by the cursor.

RENAME FILE

: This option, which is selected by pressing function key F3, changes the name of a raw data file. You must enter a new name with 1 to 5 characters that is not the same as any other raw data file name already on disk. The file currently highlighted by the cursor is renamed.

DELETE FILE

: This option, which is selected by pressing function key F4, deletes a raw data file from the disk. If the request to confirm the deletion is acknowledged, the file currently highlighted by the cursor is deleted.

COPY TO FLOPPY

This option, which is selected by pressing function key F5, allows you to copy a raw data file to a floppy disk. The file currently highlighted by the cursor is copied.

READ FLOPPY

: This option, which is selected by pressing function key F6, allows you to read the list of data files on a floppy disk. When F6 is pressed, the screen changes and floppy disk functions are enabled. (Refer to Section 4-4-6.)

UPDATE LIST

: This option, which is selected by pressing function key F7, updates the alphabetical list on the Raw data screen. Any files that have been renamed are automatically incorporated into the list. It also removes any blanks in the list caused by deletion. The most recently changed file is highlighted by the cursor.

PAGE

: When this option is enabled, it can be selected by pressing function key F8. The PAGE function allows you to-read the list of Raw data file names, 32 at a time. The function is only enabled when more than 32 files are in the directory.

4-4-6 Chromato-Data File Display Screen (FLOPPY DISK)

Press the RAWDATA FILES key on the file conversion parameter setting screen, and then press the READ FLOPPY key. The chromato-data file display screen (FLOPPY DISK) will appear. On this screen, the chromato-data files saved in the floppy disk are displayed to allow file copying (COPY TO FLOPPY key), deletion (DELETE FILES key), etc. At the top left of the screen, the remaining memory area is indicated in byte. However, the remaining memory area is not indicated when it is 1 MB or more.

< <flopp Bytes Lef</flopp 		11	R	AW DATA	A FILE	S			
FILE		SIZE	DATE	TIME	FI	LE	SIZE	E DAT	E TIME
D25CV001. RW			95/08/01 95/07/17	- 11		001. RW1 V002. RW1	13247 11047		/31 10:30 /01 13:00
ESC	F1	F2	F3	F4	1	F5	F6	F7	F8
ESCAPE			RENAME FILE	DELE		COPY TO HARDISK	READ HARDISK	UPDATE LIST	PAGE

Fig. 4-10 Chromato-Data File Display Screen (FLOPPY DISK)

ESCAPE

: This option, which is selected by pressing Esc key, returns you to the chromato-data file display screen.

RENAME FILE

this option, which is selected by pressing function key F3, changes the name of a raw data file. You must enter a new name with 1 to 5 characters that is not the same as any other raw data file name already on disk. The file currently highlighted by the cursor is renamed.

DELETE FILE

: This option, which is selected by pressing functionkey F4, deletes a raw data file from the disk. If the request to confirm the deletion is acknowledged, the file currently highlighted by the cursor is deleted.

COPY TO HARDISK

This option, which is selected by pressing function key F5, allows you to copy a raw data file to the disk. The file currently highlighted by the cursor is copied.

READ HARDISK

: This option, which is selected by pressing function key F6, allows you to read the list of data files on the hard disk (RAM disk). When F6 is pressed, the screen changes and floppy disk functions are enabled. (Refer to Section 4-4-5.)

UPDATE LIST

: This option, which is selected by pressing function key F7, updates the alphabetical list on the Raw data screen. Any files that have been renamed are automatically incorporated into the list. It also removes any blanks in the list caused by deletion. The most recently changed file is highlighted by the cursor.

PAGE

: When this option is enabled, it can be selected by pressing function key F8. The PAGE function allows you to read the list of Raw data file names, 32 at a time. The function is only enabled when more than 32 files are in the directory.

4-4-7 Chromatogram Information Display Screen

Detailed information about the cursor-specified chromatogram data can be viewed. Besides the information displayed on the data-conversion chromatogram selection screen, the baseline noise level (Noise Value) at acquisition of the relevant data and the time program of sampling period (Sampling Period Program) are displayed. When Sampling Period Program is longer than one screen page, the PREV RECORD and NEXT RECORD keys are usable for calling the other screen page. D-2500 chromatogram information display screen and D-7500 chromatogram information display screen are detailed in (1) and (2) below.

(1) D-2500 chromatogram information display screen

Date : 08/01/95	Storage No	: 1			Sam	pling Peri	od Pragram	ı
Method Name : ABCDFEFGHIJKL 0.00 200 Tag No : 124 10.00 400 Channel No : 1 30.00 800 Vial No : 50 70.00 1600 Injection Volume : 10 Sample Type : STD1	Date	: 08/0	1/95		Ti	me Per	riod	
Tag No : 124 10.00 400 Channel No : 1 ' 30.00 800 Vial No : 50 70.00 1600 Injection Volume : 10 Sample Type : STD1 Noise Value : 4	Time	: 10:30)		****			
Channel No : 1 : 30.00 800 Vial No : 50 70.00 1600 Injection Volume : 10 Sample Type : STD1 Noise Value : 4	Method Name	: ABCDI	FEFGHIJKL		0.	00	200	
Vial No : 50 70.00 1600 Injection Volume : 10 Sample Type : STD1 Noise Value : 4	Tag No	: 124			10.	00	400	
Injection Volume : 10 Sample Type : STD1 Noise Value : 4	Channel No	: 1 '			30.	00	800	
Sample Type : STD1 Noise Value : 4	Vial No	: 50			70.	00	1600	
Noise Value : 4	Injection Volum	: 10						
	Sample Type	: STD1						
	Noise Value	· 4						
ESC F1 F2 F3 F4 F5 F6 F7	noise value							
ESC F1 F2 F3 F4 F5 F6 F7	DCC D1	P0	Do	D.4	25	D.C.	200	
SSCAPE PREV NEXT			F3	F4	F5	F6	F7	F8

Fig. 4-11 D-2500 Chromatogram Information Display Screen

ESCAPE

: This option, which is selected by pressing Esc key, returns you to the D-2500 data conversion chromatogram selection screen.

7

PREV RECORD

Press function key F1 to display the previous record in the directory.

NEXT

RECORD

Press function key F2 to display the next record in the directory.

(2) D-7500 chromatogram information display screen

D-7500 DISK DI	RECTORY REC	ORD					
	7 7 12 2			10,55			
Storage No	11 1 1			Samplin	ng Period	Pragram	
Date	: 08/01	/95		Time	Perio	od -	
Time	: 9:30						
Method Name	: ABCDF	EFGHIJKL		0.00	20	00	
Seg No	: 123			10.00	4(00	
Channel No	: 1			30.00	80	00	
Vial No	: 50			70.00	160	00	
Injection Volu	me : 10						
Sample Type	: STD1						
Noise Value	: 4						
ESC F1	F2	F3	F4	F5	F6	F7	F8
ESCAPE PREV							

Fig. 4-12 D-7500 Chromatogram Information Display Screen

ESCAPE

: This option, which is selected by pressing Esc key, returns you to the D-7500 data conversion chromatogram selection screen.

PREV

RECORD

: Press function key F1 to display the previous record in the directory.

NEXT RECORD

: Press function key F2 to display the next record in the directory.

4-4-8 Date & Time Change Screen

When pressing the DATE & TIME key on the main screen, the date & time change screen appears. On this screen, the date and time display of PC system can be changed or selected/avoided.

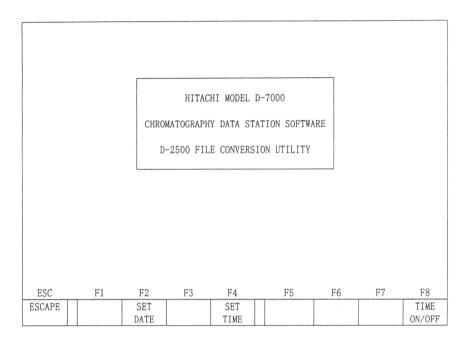


Fig. 4-13 Date & Time Change Screen

ESCAPE

: Returns display to the main screen (previous screen).

SET DATE

This option is selected by pressing function key F2. You are then prompted to enter the new date in MM/DD/YY format. While the prompt is displayed, the ABORT ENTRY menu option is available and can be selected to abort the entry.

NOTICE: MM can be input within 1 to 12, DD within 1 to 31 and YY within 80 to 35.

SET TIME

This option is selected by pressing function key F4. You are then prompted to enter the new time in HH:MM format. While the prompt is displayed, the ABORT ENTRY menu option is available and can be selected to abort the entry.

NOTICE: HH can be input within 0 to 23, and MM within 0 to 59.

TIME ON/OFF

Each time F8 is pressed, the menu option will toggle between TIME ON and TIME OFF.

Pressing F8 when TIME ON is displayed, causes the current date and time (if set) to be displayed in the upper right corner of the title screen (and all other screens), and TIME ON will toggle to TIME OFF.

Pressing F8 when TIME OFF is displayed, removes the current date and time from the title screen (and all other screens), and TIME OFF will toggle to TIME ON.

4-5 Termination of Software (restart)

After returning to the main screen, press the EXIT TO DOS key and then the space key. The software will be terminated and transition will be made to the DOS screen in which "C>" is displayed. In the current status, the power supply of PC should be turned off. For restart, key in each command and press the ENTER key from the keyboard on the DOS screen as follows.

C:\INTEG\D25 (or D75) >CD.. \circlearrowleft C:\INTEG>INTEG \circlearrowleft

♣: Requires pressing of the ENTER key.

As a result, the D-2500/D-7500 data file conversion utility will restart.

5. IMPORT OF CHROMATO-DATA FILE INTO D-7000 HSM

This section describes the procedure for reading the chromato-data file converted by the D-2500/D-7500 data file conversion utility into the D-7000 HSM.

- (1) Start the D-7000 HSM.
- (2) Select the application in conversion system.
- (3) Click on the icon of data processing control to open "Open File." The screen shown in Fig. 5-1 will be displayed.

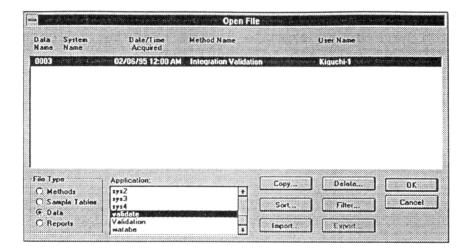


Fig. 5-1 Data Reprocessing Screen

- (4) Set the FD in which the chromato-data files after conversion are saved into the floppy disk drive.
- (5) Click on the Import button in "Open File."

(6) The Import File screen shown in Fig. 5-2 appears. So set the drive name to "a:."

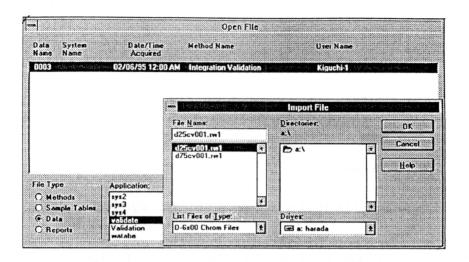


Fig. 5-2 Import File Screen

(7) The chromato-data files stored in FD are displayed. Select the application to be imported, and then click on the OK button. Introduced here as an example is the transfer of chromato-data files "d25cv001.rw1" and "d75cv001.rw1."

(8) The files have now been imported into the D-7000 HSM. Fig. 5-3 shows the "Open File" screen after import of the chromato-data files. "d25cv" and "d75cv" chromato-data files have been transferred.

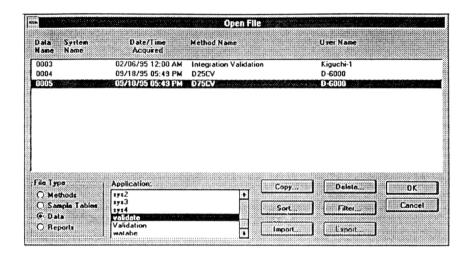


Fig. 5-3 Import of Chromato-Data Files

(9) For processing in the D-7000 HSM, an analysis file is required. It is necessary to generate an analysis file with the analysis file name (e.g., "D25CV") given at the time of chromato-data file conversion. For details of analysis file generation, refer to the instruction manual of D-7000 HSM.

NOTICE: The date of the data file after conversion may be different from that of the data file before conversion. In particular, the Model D-2500/D-7500 employs a 2-digit display for year. Therefore, when the year indication before conversion is "00," it becomes 2000 in D-7000 HSM.

APPENDIX 1 ERROR MESSAGES

	Message	Cause and Remedy
ERROR:	Invalid directory path: ****	There is no directory named **** on the current drive. Ensure that the "HPLC Data Directory Path" you specify is for the directory where you keep the raw data files.
ERROR:	Improper method name	The method name just entered is either too long or contains a character that may not appear in a DOS file name. Ensure that the method name consists of no more than 5 characters and that it does not contain characters that may not appear in a DOS file name.
ERROR:	Input out of limits	The value just entered does not fall in the acceptable range. Enter a valid value, using the "Input Guide" that is displayed in the upper right-hand corner of the screen.
ERROR:	Not a D-2500 disk	The disk inserted in the current drive is not a D-2500 raw data disk. Insert a D-2500 raw data disk in the disk drive you have specified as the drive to use.
ERROR:	Not a D-7500 disk	The disk inserted in the current drive is not a D-7500 raw data disk. Insert a D-7500 raw data disk in the disk drive you have specified as the drive to use.
ERROR:	Incorrect disk version	The D-2500 or 7500 disk inserted in the current drive is incompatible with the current software.
ERROR:	Not disk present. Insert D-2500 raw data disk in drive	Insert a D-2500 raw data disk in the disk drive you have specified as the drive to use.
ERROR:	Not disk present. Insert D-7500 raw data disk in drive	Insert a D-7500 raw data disk in the disk drive you have specified as the drive to use.
ERROR:	Disk read error. Does drive X contain a D-2500 raw data disk ?	An error occurred during the read operation. Ensure that a D-2500 raw data disk is inserted properly in the disk drive you have specified as the drive to use.

Message	Cause and Remedy
ERROR: Disk read error. Does drive X contain a D-7500 raw data disk ?	An error occurred during the read operation. Ensure that a D-7500 raw data disk is inserted properly in the disk drive you have specified as the drive to use.
ERROR: Not a raw data disk	The disk inserted in the current drive is not a D-2500 or D-7500 raw data disk. Insert a D-2500 or D-7500 raw data disk in the disk drive you have specified as the drive to use.
ERROR: No data files on disk	The D-2500 or D-7500 raw data disk inserted in the current drive does not have any chromatogram data recorded on it. Insert a D-2500 or D-7500 raw data disk.
ERROR: There are no chromatograms selected for Conversion.	You have pressed the CONVERT CHROMS function key without first specifying which chromatograms are to be converted. You must select at least one chromatogram.
ERROR: Invalid date	Enter a valid date in the form "mm/dd/yy".
ERROR: Invalid time	Enter a valid time in the form "hh: mm".
ERROR: Incorrect date format	Enter date in the form "mm/dd/yy".
ERROR: Incorrect time format	Enter time in the form "hh : mm".
"No chromatogram selected. Sampling period program does not match. "	The sampling period program associated with the chromatogram(s) you have just tried to select for conversion does not match the sampling period program of the chromatograms that have already been selected. Thus, the specified chromatogram(s) was rejected.
Selected only n chromatogram(s). Target data file will be full.	The program informs you how many, indicated by the value of "N", of the chromatograms you attempted to select have been accepted for conversion. Since the maximum number of chromatograms that an HPLC Manager raw data file can hold is 216, there are cases where not all of the chromatograms you wish to select can be accepted.

Message	Cause and Remedy
No chromatogram selected. Target data file is full.	Since the target HPLC Manager raw data file you specified already contains 216 chromatograms, no additional chromatogram can be selected for conversion.
Converting chromatogram N. To stop converting press ESC key.	The value of the "N" in the above message informs you which chromatogram is currently being converted. The message also informs you that you can press the escape key to stop the conversion process, if you so wish.
No files found	The directory specified by the "HPLC Data File Directory Path" does not contain any raw data file.
Reading disk directory	The program informs you that it is now reading the D-2500 or D-7500 raw data disk to determine what is recorded on it.
Selected N chromatogram(s) with matched sampling period program.	The program informs you how many of the chromatograms have actually been selected for conversion. An actual number will be substituted for the "N" in the above message.

APPENDIX 2 TERMINOLOGY

Backup : Generation of another set of program or data by

copying into a different storage medium such as floppy disk as a preparation for the case where

the program or data is destroyed.

Click : To press the mouse button once.

Copy : To write the original data in a medium such as

floppy disk without losing that data.

Double click : To press the mouse button twice consecutively.

Floppy disk : A storage medium prepared by cutting out a disk

Floppy disk : A storage medium prepared by cutting out a disk from the polyester film sheet coated with

magnetic oxide and accommodating it in a case.

Function keys: Keys laid out at the top or left side on the

computer keyboard. Named F1, F2, etc.

Hard disk : Of magnetic disks, this is a hard one made of

metal or glass and used as an auxiliary storage. This disk can store more data than a floppy disk. In addition, a higher accessing speed is offered.

Icon : A graphic display of software or file function on

screen for easy and prompt understanding.

Install : To copy software, etc. into the hard disk, etc.

for making operations possible.

MS-DOS : The OS developed by Microsoft Corp., U.S.A. This

is the personal computer OS used presently in the broadest field. It is basically operated in the single task/single user environment. Directly accessible user memory is limited to 640K bytes

at maximum.

PC : Abbreviation for Personal Computer. A stand-

alone computer intended to be used personally.

Pull-down menu: Convenient method for displaying a menu and

function list locally on screen.

RAM : Abbreviation for Random Access Memory. This

memory allows both data read and write operations.

RAM disk : Using part of the memory of PC main frame in the

same way as a storage medium such as hard disk. Faster access is possible than with a floppy disk.

However, data will be erased when turning off

power supply.

Software : Program, etc. for operating your personal

computer.

Windows NT : MS-Windows upgraded especially for high-end

machines. This software itself provides OS functions and mounts a complete multi-task

function, security function, etc.

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